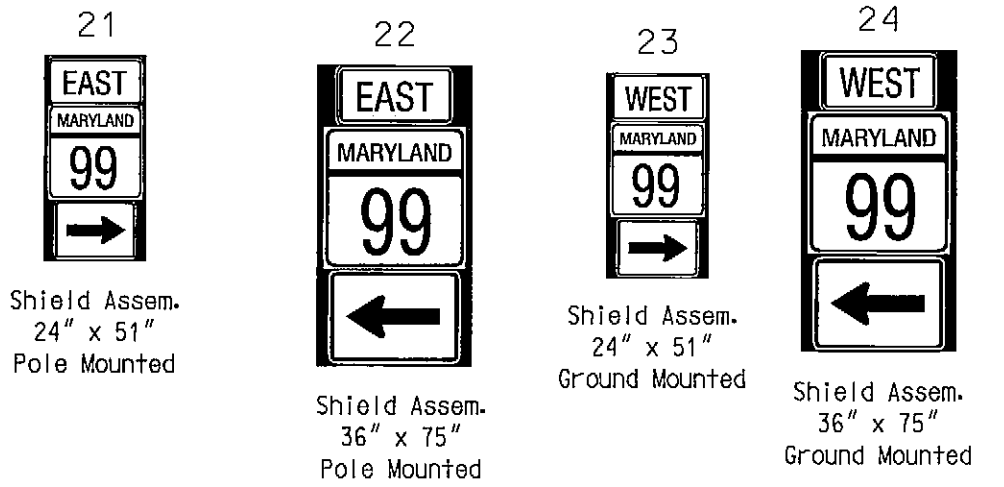
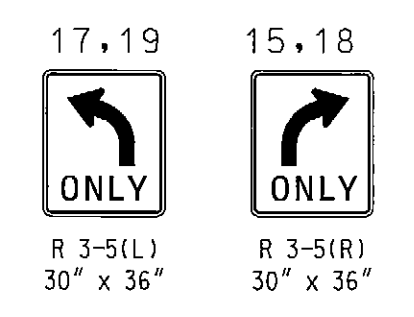


RELOCATE SIGNS



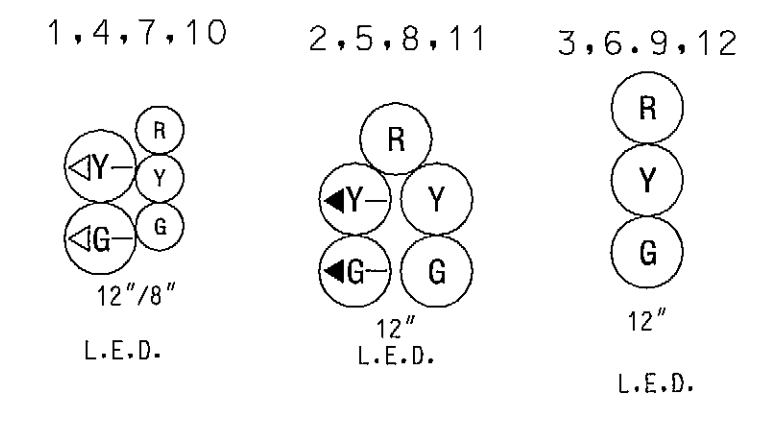
PROPOSED SIGNS



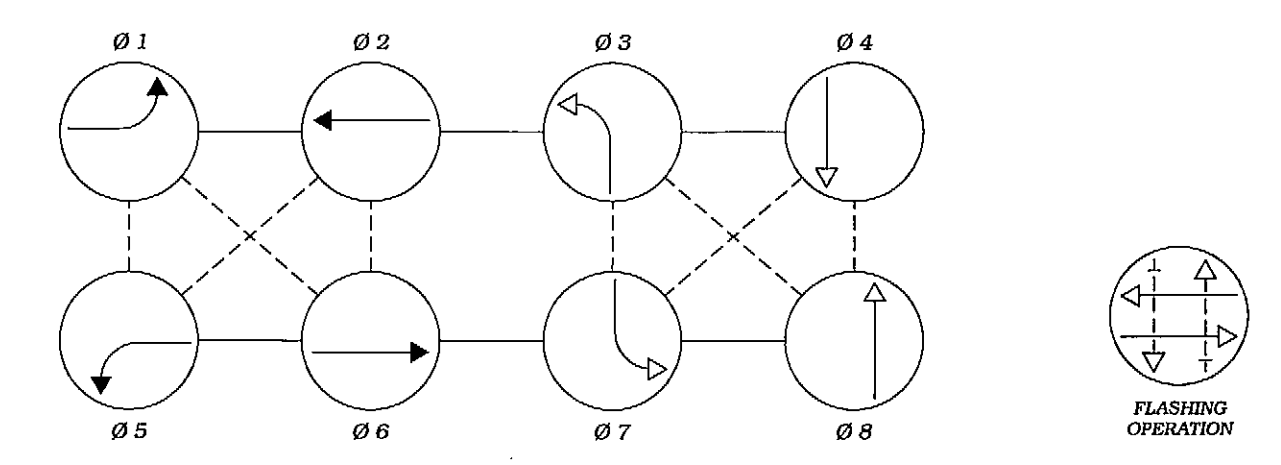
16, 20
Marriottsville Road
D-3(1)
16" x Var.
Dual Faced

13, 14
Old Frederick Road
D-3(1)
16" x Var.
Dual Faced

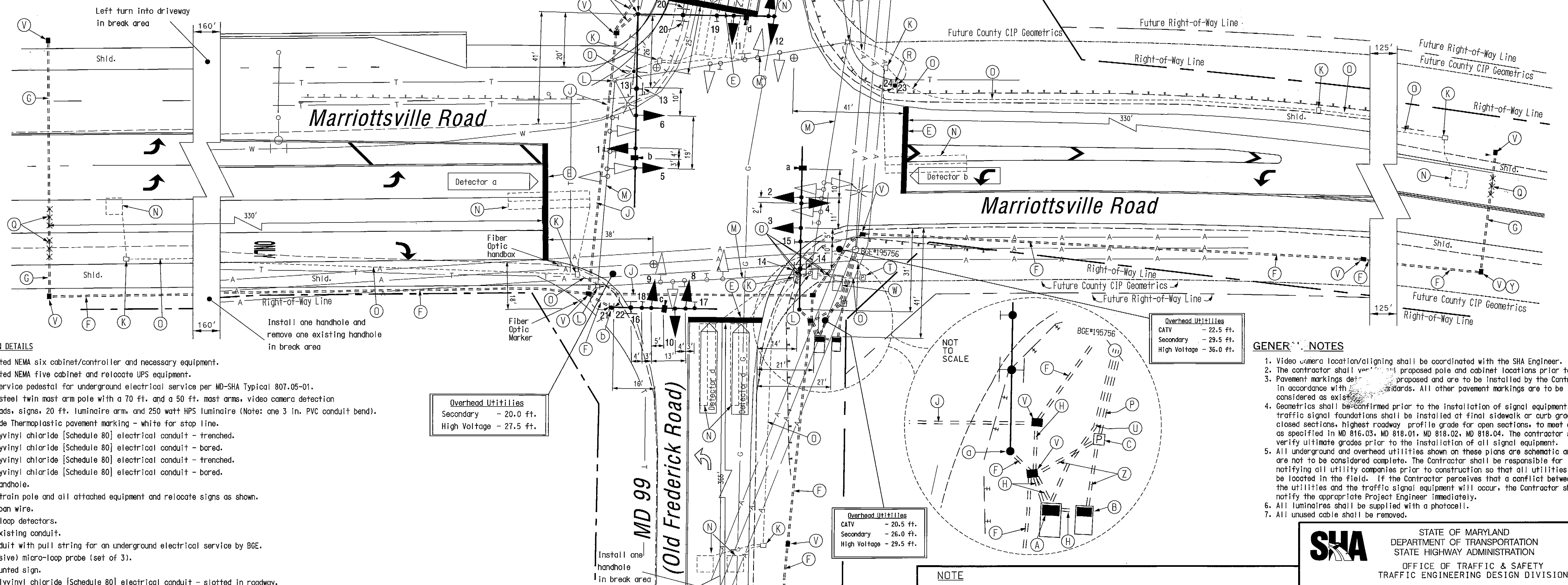
PROPOSED SIGNALS



PROPOSED NEMA PHASING



NEMA notes:
Phases associated by a dashed line will operate concurrently.
Phases associated by a solid line will not operate concurrently.



CONSTRUCTION DETAILS

- Install base mounted NEMA six cabinet/controller and necessary equipment.
- Install base mounted NEMA five cabinet and relocate UPS equipment.
- Install metered service pedestal for underground electrical service per MD-SHA Typical 807.05-01.
- Install a 27 ft. steel twin mast arm pole with a 70 ft. and a 50 ft. mast arms, video camera detection vehicle signal heads, signs, 20 ft. luminaire arm, and 250 watt HPS luminaire (Note: one 3 in. PVC conduit bend).
- Install 24 in. wide Thermoplastic pavement marking - white for stop line.
- Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
- Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
- Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
- Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
- Remove existing handhole.
- Remove existing strain pole and all attached equipment and relocate signs as shown.
- Remove existing span wire.
- Abandon existing loop detectors.
- Cap and abandon existing conduit.
- Install 4 in. conduit with pull string for an underground electrical service by BGE.
- Install (non-invasive) micro-loop probe (set of 3).
- Install ground mounted sign.
- Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - slotted in roadway.
- Remove existing electrical service pedestal.
- Install 2 in. polyvinyl chloride [Schedule 80] electrical conduit for phone line.
- Install handhole.
- Remove existing cabinet. Relocate existing UPS equipment to new cabinet.
- Leave additional slack in cable for future adjustment of traffic signal heads.
- Leave additional slack in cable for future adjustment to probe. (Approx. 25 ft. per cable)
- Install 2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
- Install 21 ft. (cut from a 27 ft.) steel mast arm pole with a 60 ft. mast arm, video camera detection, vehicle signal heads, and signs (Note: one 3 in. PVC conduit bend).
- Install 21 ft. (cut from a 27 ft.) steel mast arm pole with a 38 ft. mast arm, video camera detection, vehicle signal heads, and signs (Note: one 3 in. PVC conduit bend). Contractor to insure a minimum 10 ft. pole base in ground. Pole base may require small extension due to grade difference.

GEOMETRIC LEGEND	
==	EXISTING GEOMETRICS
---	PROPOSED GEOMETRICS

UTILITY LEGEND	
---	GAS MAIN
---	WATER MAIN
---	SEWER MAIN
---	ELECTRIC CABLES
---	STORM DRAIN
---	AERIAL CABLES
---	TELEPHONE CABLES

Overhead Utilities	
CATV	- 20.5 ft.
Secondary	- 26.0 ft.
High Voltage	- 29.5 ft.

Overhead Utilities	
CATV	- 22.5 ft.
Secondary	- 29.5 ft.
High Voltage	- 36.0 ft.

NOTE

These plans are approved for construction for a period of one (1) year from the date of approval. Should construction not begin within this time frame these plans shall be null and void without a re-review from the Traffic Engineering design Division.

GENERAL NOTES

- Video camera location/aligning shall be coordinated with the SHA Engineer.
- The contractor shall verify proposed pole and cabinet locations prior to installation.
- Pavement markings shall be proposed and are to be installed by the Contractor in accordance with standards. All other pavement markings are to be considered as existing.
- Geometrics shall be confirmed prior to the installation of signal equipment. All traffic signal foundations shall be installed at final sidewalk or curb grade for closed sections, highest roadway profile grade for open sections, to meet clearances as specified in MD 816.03, MD 816.01, MD 818.01, MD 818.02, MD 818.04. The contractor shall verify ultimate grades prior to the installation of all signal equipment.
- All underground and overhead utilities shown on these plans are schematic and are not to be considered complete. The Contractor shall be responsible for notifying all utility companies prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal equipment will occur, the Contractor shall notify the appropriate Project Engineer immediately.
- All luminaires shall be supplied with a photocell.
- All unused cable shall be removed.

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 99 (Old Frederick Road) at Marriottsville Road

TRAFFIC SIGNAL PLAN

SCALE 1" = 20'	DATE 1/17/1983	CONTRACT NO. AW-625-0507-785
DESIGNED BY T. Zaydell	COUNTY Howard	
DRAWN BY T. Zaydell	LOGMILE 1300902.87	
CHECKED BY T. Zaydell	T.I.M.S. NO. 1-770	
F.A.P. NO. N/A	TOD NO.	
DRAWING NO. TS 1891F	SHEET NO. 1 OF 2	

The Traffic Group, Inc.
Suite H
9900 Franklin Square Drive
Baltimore, Maryland 21236
410-931-6600
1-800-583-8411
Fax 410-931-6601

APPROVALS	
TEAM LEADER	
ASST. DIV. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

REVISIONS	
1	Reconstruct signal due to road widening S.H.A. No. 18W936M82 E Add UPS June 6, 2007
2	Add E/P phasing for E/B & W/B S.H.A. No. 1AT 7835185 SDY June 6, 2006